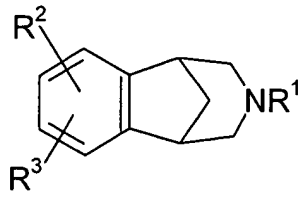
**IN THE CLAIMS (37 CFR 1.121 Revised)**

1. (currently amended) A pharmaceutical composition comprising a compound of the formula




(I)

$R^1$ is hydrogen, $(C_1\text{-}C_6)$alkyl, unconjugated $(C_3\text{-}C_6)$alkenyl, $XC(=O)R^{13}$, benzyl or $-CH_2CH_2\text{-}O\text{-}(C_1\text{-}C_4)$alkyl;

$R^2$ and $R^3$ are selected, independently, from hydrogen, $(C_2\text{-}C_6)$alkenyl, $(C_2\text{-}C_6)$alkynyl, hydroxy, nitro, amino, halo, cyano, $-SO_q(C_1\text{-}C_6)$alkyl wherein q is zero, one or two, $(C_1\text{-}C_6)$alkylamino-, $[(C_1\text{-}C_6)\text{alkyl}]_2$amino-, $-CO_2R^4$, $-CONR^5R^6$, $-SO_2NR^7R^8$, $-C(=O)R^{13}$, $-XC(=O)R^{13}$, aryl-$(C_0\text{-}C_3)$alkyl- or aryl-$(C_0\text{-}C_3)$alkyl-O-, wherein said aryl is selected from phenyl and naphthyl, heteroaryl-$(C_0\text{-}C_3)$alkyl- or heteroaryl-$(C_0\text{-}C_3)$alkyl-O-, wherein said heteroaryl is selected from five to seven membered aromatic rings containing from one to four heteroatoms selected from oxygen, nitrogen and sulfur, and $X^2(C_0\text{-}C_6)$alkoxy-$(C_0\text{-}C_6)$alkyl-, wherein $X^2$ is absent or $X^2$ is $(C_1\text{-}C_6)$alkylamino- or $[(C_1\text{-}C_6)\text{alkyl}]_2$amino-, and wherein the $(C_0\text{-}C_6)$alkoxy-$(C_0\text{-}C_6)$alkyl- moiety of said $X^2(C_0\text{-}C_6)$alkoxy-$(C_0\text{-}C_6)$alkyl- contains at least one carbon atom, and wherein from one to three of the carbon atoms of said $(C_0\text{-}C_6)$alkoxy-$(C_0\text{-}C_6)$alkyl- moiety may optionally be replaced by an oxygen, nitrogen or sulfur atom, with the proviso that any two such heteroatoms must be separated by at least two carbon atoms, and wherein any of the alkyl moieties of said $(C_0\text{-}C_6)$alkoxy-$(C_0\text{-}C_6)$alkyl- may be optionally substituted with from two to seven fluorine atoms, and wherein one of the carbon atoms of each of the alkyl moieties of said aryl-$(C_0\text{-}C_3)$alkyl- and said heteroaryl-$(C_0\text{-}C_3)$alkyl- may optionally be replaced by an oxygen, nitrogen or sulfur atom, and wherein each of the foregoing aryl and heteroaryl groups may optionally be substituted with one or more substituents independently selected from $(C_1\text{-}C_6)$alkyl optionally substituted with from one to seven fluorine atoms, $(C_1\text{-}C_6)$alkoxy optionally substituted with from two to seven fluorine atoms, halo, $(C_2\text{-}C_6)$alkenyl, $(C_2\text{-}C_6)$alkynyl, hydroxy, nitro, cyano, amino, $(C_1\text{-}C_6)$alkylamino-, $[(C_1\text{-}C_6)\text{ alkyl}]_2$amino-, $-CO_2R^4$, $-CONR^5R^6$, $-SO_2NR^7R^8$, $-C(=O)R^{13}$ and $-XC(=O)R^{13}$;

or $R^2$ and $R^3$, together with the carbons to which they are attached, form a four to seven membered monocyclic, or ten to fourteen membered bicyclic, carbocyclic ring that can be saturated or unsaturated, wherein from one to three of the nonfused carbon atoms of said monocyclic rings, and from one to five of the carbon atoms of said bicyclic rings that are not part of the benzo ring shown in formula I, may optionally and independently be replaced by a nitrogen, oxygen or sulfur, and wherein said monocyclic and bicyclic rings may optionally be substituted with one or more substituents that are selected, independently, from $(C_1\text{-}C_6)$ alkyl optionally

substituted with from one to seven fluorine atoms, ($C_1$-$C_6$) alkoxy optionally substituted with from one to seven fluorine atoms, nitro, cyano, halo, ($C_2$-$C_6$)alkenyl, ($C_2$-$C_6$)alkynyl, hydroxy, amino, ($C_1$-$C_6$)alkylamino and [($C_1$-$C_6$) alkyl]$_2$amino, -$CO_2R^4$, -$CONR^5R^6$, -$SO_2NR^7R^8$, -$C(=O)R^{13}$ and -$XC(=O)R^{13}$;

wherein each $R^4$, $R^5$, $R^6$, $R^7$, $R^8$ and $R^{13}$ is selected, independently, from hydrogen and ($C_1$-$C_6$) alkyl, or $R^5$ and $R^6$, or $R^7$ and $R^8$ together with the nitrogen to which they are attached, form a pyrrolidine, piperidine, morpholine, azetidine, piperazine, N-($C_1$-$C_6$)alkylpiperazine or thiomorpholine ring, or a thiomorpholine ring wherein the ring sulfur is replaced with a sulfoxide or sulfone; with the proviso that when $R^1$ is hydrogen and $R^2$ is 4-hydroxy, then $R^3$ is 5-(2-fluorobenzamidyl);

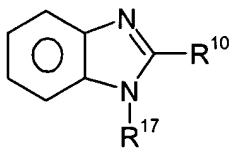
and

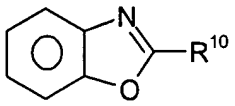
each X is, independently, ($C_1$-$C_6$)alkylene;

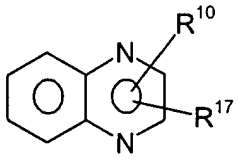
[[~~and~~]] or a pharmaceutically acceptable [[~~salts~~]] salt thereof;

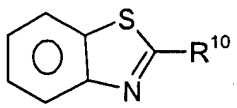
and a compound that is selected from a muscarinic agonist, [[~~a neurotrophic factor,~~]] an agent that slows or arrests Alzheimer's disease selected from a cognition enhancer, an amyloid aggregation inhibitor, a secretase inhibitor, [[~~a tau kinase inhibitor,~~]] a neuronal antiinflammatory agent and an estrogen-like therapeutic agent.

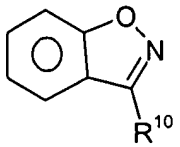
2. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is, wherein $R^2$ and $R^3$, together with the benzo ring of formula I, form a bicyclic ring system selected from the following:




wherein $R^{10}$ and $R^{17}$ are selected, independently, from ($C_0$-$C_6$)alkoxy-($C_0$-$C_6$)alkyl- wherein the total number of carbon atoms does not exceed six and wherein any of the alkyl moieties may optionally be substituted with from one to seven fluorine atoms; nitro, cyano, halo, amino, ($C_1$-$C_6$)alkylamino-, [($C_1$-$C_6$) alkyl]$_2$amino-, -$CO_2R^4$, -$CONR^5R^6$, -$SO_2NR^7R^8$, -$C(=O)R^{13}$, -$XC(=O)R^{13}$, phenyl and monocyclic heteroaryl, wherein said heteroaryl is selected from five to seven

membered aromatic rings containing from one to four heteroatoms selected from oxygen, nitrogen and sulfur.

3. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is, wherein $R^2$ and $R^3$ do not, together with the benzo ring of formula I, form a bicyclic or tricyclic ring system.

4. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is, wherein one or both of $R^2$ and $R^3$ are $-C(=O)R^{13}$ wherein $R^{13}$ is $(C_1\text{-}C_6)$alkyl.

5. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is, wherein one of $R^2$ and $R^3$ is $-COR^{13}$ wherein $R^{13}$ is $(C_1\text{-}C_6)$alkyl or $(C_1\text{-}C_3)$alkyl optionally substituted with from one to seven fluorine atoms.

6. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is, wherein one of $R^2$ and $R^3$ is $CF_3$ , fluoro, cyano or $C_2F_5$.

7. (canceled)

8. (previously presented) A method for reducing nicotine addiction or aiding in the cessation or lessening of tobacco use in a mammal, comprising administering to said mammal an amount of a pharmaceutical composition according to claim 1 that is effective in reducing nicotine addiction or aiding in the cessation or lessening of tobacco use.

9. (canceled)

10. (previously presented) A method for treating a disorder or condition selected from inflammatory bowel disease, ulcerative colitis, pyoderma gangrenosum, Crohn's disease, irritable bowel syndrome, spastic dystonia, chronic pain, acute pain, celiac sprue, pouchitis, vasoconstriction, anxiety, panic disorder, depression, bipolar disorder, autism, sleep disorders, jet lag, amyotrophic lateral sclerosis (ALS), cognitive dysfunction, hypertension, bulimia, anorexia, obesity, cardiac arrhythmias, gastric acid hypersecretion, ulcers, pheochromocytoma, progressive supranuclear palsy, chemical dependencies and addictions; dependencies on, or addictions to, nicotine, tobacco products, alcohol, benzodiazepines, barbiturates, opioids or cocaine; headache, stroke, traumatic brain injury (TBI), obsessive-compulsive disorder (OCD), psychosis, Huntington's Chorea, tardive dyskinesia, hyperkinesia, dyslexia, schizophrenia, multi-infarct dementia, age related cognitive decline, epilepsy, petit mal absence epilepsy, senile dementia of

the Alzheimer's type (AD), Parkinson's disease (PD), attention deficit hyperactivity disorder (ADHD) and Tourette's Syndrome in a mammal, comprising administering to a mammal in need of such treatment a pharmaceutical composition according to claim 1 that is effective in treating such disorder or condition.

11. - 14. (canceled)

15. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is selected from the group consisting of
2-fluoro-N-(4-hydroxy-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-5-yl)-benzamide;
1-(10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-yl)-1-ethanone;
and pharmaceutically acceptable salts thereof.

16. (currently amended) A pharmaceutical composition according to claim 1 wherein the compound of formula I is selected from the group consisting of:
4-methyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-nitro-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-amino-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
~~[[N$^4$-[10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-yl]acetamida;]]~~
N-[10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-yl]acetamida;
4,5-difluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-chloro-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
3-(10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-yl)-5-methyl-1,2,4-oxadiazole;
10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-ol;
4,5-dichloro-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
N$^4$,N$^4$-dimethyl-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene-4-sulfonamide;
4-(1-pyrrolidinylsulfonyl)-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
5-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene-4-carbonitrile;
4-ethynyl-5-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
5-ethynyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene-4-carbonitrile;
5-chloro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene-4-carbonitrile;
4-ethynyl-5-chloro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-fluoro-5-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-chloro-5-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
5-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene-4-carbonitrile;
4-ethynyl-5-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4,5-bistrifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;

and pharmaceutically acceptable salts thereof.

17. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is selected from the group consisting of:
3-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
4-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
3-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-trien-4-yl cyanide;
4-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene;
and pharmaceutically acceptable salts thereof.

18. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:
4-nitro-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

19. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:
4,5-dichloro-10-azatricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

20. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:
3-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

21. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:
3-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

22. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:
4-ethynyl-5-fluoro-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

23. (previously presented) A pharmaceutical composition according to claim 1 wherein the compound of formula I is:

4-fluoro-5-trifluoromethyl-10-aza-tricyclo[6.3.1.$0^{2,7}$]dodeca-2(7),3,5-triene; or a pharmaceutically acceptable salt thereof.

24. (canceled)

25. (previously presented) A pharmaceutical composition according to claim 1 wherein the neurotrophic factor is NGF.

26. (previously presented) A pharmaceutical composition according to claim 1 wherein the agent that slows or arrests Alzheimer's disease is a cognition enhancer.

27. (previously presented) A pharmaceutical composition according to claim 1 selected from the group consisting of:

5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

7-methyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

6-methyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

7-propyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10);3,5,8-tetraene;

7-butyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

6-methyl-7-isobutyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

7-neopentyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

6-methyl-7-neopentyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8- tetraene;

6-methyl-5-oxa-7,13-diazatetracyclo[9.3.l.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,6,8-tetraene;

and pharmaceutically acceptable salts thereof.

28. (previously presented) A pharmaceutical composition according to claim 1 which is:

6-methyl-5-thia-7,13-diazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,6,8-tetraene;

or a pharmaceutically acceptable salt thereof.

29. (previously presented) A pharmaceutical composition according to claim 1 which is:

6-methyl-7-propyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

or a pharmaceutically acceptable salt thereof.

30. (previously presented) A pharmaceutical composition according to claim 1 which is:

6, 7-dimethyl-5,7,13-triazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,5,8-tetraene;

or a pharmaceutically acceptable salt thereof.

31. (previously presented) A pharmaceutical composition according to claim 1 which is:

6,7-dimethyl-5,8,l4-triazatetracyclo[10.3.1.$0^{2,11}$.$0^{4,9}$]hexadeca-2(11),3,5,7,9-pentaene;

or a pharmaceutically acceptable salt thereof.

32. (previously presented) A pharmaceutical composition according to claim 1 which is:

5,8,14-triazatetracyclo[10.3.1.$0^{2,11}$.$0^{4,9}$]hexadeca-2(11),3,5,7,9-pentaene;

or a pharmaceutically acceptable salt thereof.

33. (previously presented) A pharmaceutical composition according to claim 1 which is:

14-methyl-5,8,14-triazatetracyclo[10.3.1.$0^{2,11}$.$0^{4,9}$]hexadeca-2(11),3,5,7,9-pentaene;

or a pharmaceutically acceptable salt thereof.

34. (previously presented) A pharmaceutical composition according to claim 1 which is:

5-oxa-7,13-diazatetracyclo[9.3.l.$0^{2,10}$.$0^{4,8}$]pentadeca-2(10),3,6,8-tetraene;

or a pharmaceutically acceptable salt thereof.

35. (previously presented) A pharmaceutical composition according to claim 1 which is:

7-methyl-5-oxa-6,l3-diazatetracyclo[9.3.1.$0^{2,10}$.$0^{4,8}$]pentadeca-2,4(8),6,9-tetraene;

or a pharmaceutically acceptable salt thereof.